

What is claimed is:

1. A method for capturing and reproducing sound, the method comprising the steps of:
 - 5 defining an enclosing surface around at least one sound source;
generating a sound field from the at least one sound source;
capturing predetermined parameters of the generated sound field by using an array of transducers spaced at known, predetermined locations over the enclosing surface;
modeling the sound field based on the captured parameters and the known location of the
10 transducers;
storing the modeled sound field;
using the stored sound field to selectively create sound events based on the modeled sound field, where the created sound events can be substantially the same as the modeled sound event or one or more parameters of the modeled sound event may be
15 selectively modified as; and
independently driving a plurality of loudspeakers arranged at predetermined locations to recreate the sound field using an explosion type loudspeaker configuration.